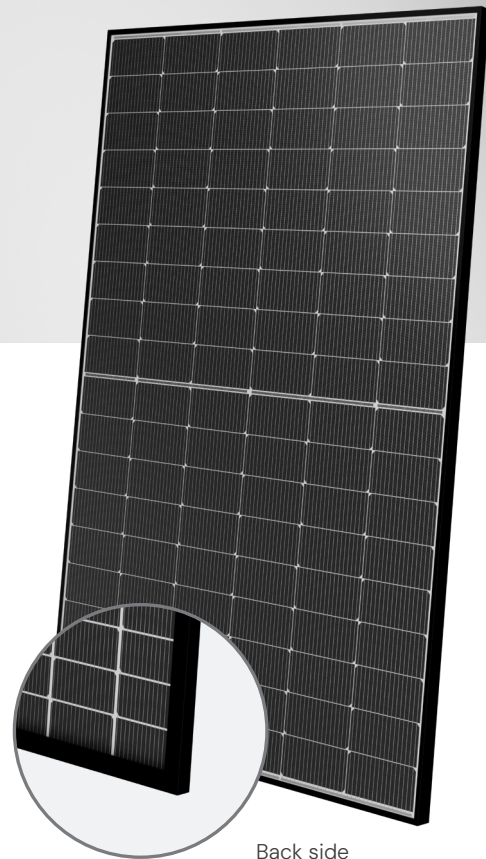


# OR10H440MNDB (BF)

OR Series – 440 W

108 cells  
MONO M10 HALF | N-TYPE



#### Extra-EU module

Manufactured in our production factory



#### TOPCon bifacial technology



#### Anti-reflective double glass

Maximum efficiency and high performance



#### Compact and sturdy frame

Anchorable also on the short side <sup>(5)</sup>



#### Class of reaction to fire

Class 1 (UNI 9177),  
B-s1, d0 (EN 13501-1)  
B<sub>ROOF</sub>(t1) (EN 13501-5)



#### 30 years

Linear power warranty

#### 25 years

Product warranty



#### QBE insurance

QBE Product Liability Insurance

QBE is a global leader in the insurance sector, offering comprehensive solutions for business risk management. With a worldwide network, it protects clients against a wide range of risks and provides flexible insurance solutions tailored to various industries, including the energy sector.

# OR10H440MNDB (BF)

## Electrical Characteristics (STC) <sup>(1)</sup>

Nominal Output (Pmax) <sup>(2)</sup>	440 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	33,01 V
Current at Pmax (Imp)	13,33 A
Open Circuit Voltage (Voc) <sup>(2)</sup>	38,71 V
Short Circuit Current (Isc) <sup>(2)</sup>	14,13 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	30 A
Module Efficiency	22,02%   22,53%
Protection class against electric shock	Class II

1. STC: (Standard Test Condition) Irradiance 1000 W/m<sup>2</sup>; Module Temperature 25 °C; Air Mass 1,5

2. Pmax, Voc, Isc measurement tolerance: ±3%

## Electrical Characteristics with rear side power gain

Pmax gain	5%	10%	15%	20%	25%
Nominal Output (Pmax)	462 W	484 W	506 W	528 W	550 W
Voltage at Pmax (Vmp)	33,01 V	33,01 V	33,01 V	33,01 V	33,01 V
Current at Pmax (Imp)	14,00 A	14,66 A	15,33 A	16,00 A	16,66 A
Open Circuit Voltage (Voc)	38,71 V	38,71 V	38,71 V	38,71 V	38,71 V
Short Circuit Current (Isc)	14,84 A	15,54 A	16,25 A	16,96 A	17,66 A

## Mechanical Characteristics

Solar Cells	108 M10 HALF monocrystalline <b>N-TYPE</b>
Solar Cells Size	182 x 91 mm / 7,16 x 3,58"
Front Cover	2,0 mm / 0,08" thick, low iron tempered glass
Back Cover	2,0 mm / 0,08" thick, low iron tempered glass
Encapsulant	EVA / POE
Frame	Anodized aluminium alloy, double wall
Frame finishing	Black
Diodes	3 Bypass diodes serviceable
Junction Box	IP68 rated
Connector	MC4 or compatible connector
Cables Length	1200 mm / 47,24"
Cables Section	4,0 mm <sup>2</sup> / 0,006 in <sup>2</sup>
Dimensions	1722 x 1134 x 30 mm / 67,79 x 44,64 x 1,18" 1762 x 1134 x 30 mm / 69,37 x 44,64 x 1,18"
Weight	23,24 kg / 51,2 lbs - 23,77 kg / 52,4 lbs
Max Load (Test Load) - SF	5400 Pa - 1,5 <sup>(5)</sup>

5. Consult the installation manual for the relative mounting configurations

## Temperature Characteristics

NMOT <sup>(3)</sup>	43±2 °C
Temperature Coefficient of Pmax	-0,29 %/°C
Temperature Coefficient of Voc	-0,25 %/°C
Temperature Coefficient of Isc	0,046 %/°C
Operating Temperature	-40 °C ~ +85 °C

3. NMOT: Nominal Module Operating Temperature; Irradiance 800 W/m<sup>2</sup>; Air 20 °C; Wind speed 1 m/s

## Packaging <sup>(4)</sup>

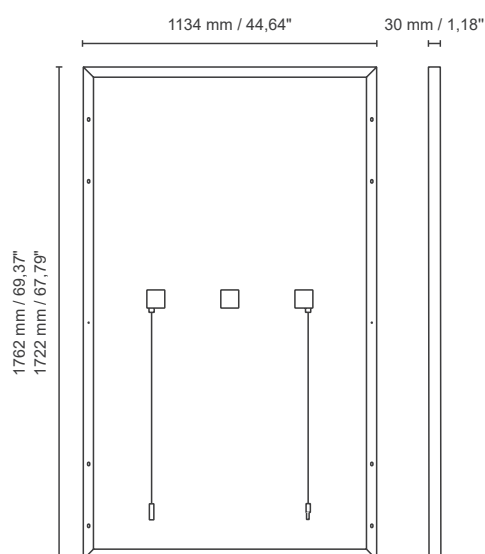
Pallet dimensions	1750 x 1130 x 1265 mm / 68,9 x 44,5 x 49,8" 1780 x 1130 x 1265 mm / 70,1 x 44,5 x 49,8"
Pieces per pallet	36
Weight	864 kg / 1904,8 lbs   883 kg / 1946,68 lbs

4. Pallets can be stacked up to two

## Certifications

Reaction to fire	Class 1 (UNI 9177), B-s1, d0 (EN 13501-1), B <sub>roof</sub> (t1) (EN 13501-5)
Product Certificate	IEC 61215-1, IEC 61215-1-1, IEC 61215-2, IEC 61730-1, IEC 61730-2

## Dimensions



## Current/Voltage Characteristics

